S/109/62/007/002/024/024 D256/D303

Energy spectrum of slow secondary

the energy spectra of the slow secondary electrons for various thicknesses 0. The spectra are different in character using silicon and beryllium backing; for silicon two peaks appear at a thickness of barium $\Theta \simeq 1$ to 2 atomic layers, and at $\Theta = \lambda = 12$ atomic layers the shape of the spectrum is that of pure barium ($\lambda = z$ one of emission of slow electrons in barium); for beryllium backing the peaks are absent. This pattern is explained by the relative magnitudes of the secondary electron emission coeff. o: o for beryllium is smaller than for barium, while for silicon it is larger than for barium. It is shown that the maximum of the spectrum becomes established at 6 \simeq 2 atomic layers and its shape at 9 \simeq λ , irrespective of d and η . This result agrees with the previous investigations. It is suggested that in order to obtain two peaks in the slow electron spectrum the following conditions should be fulfilled: 1) The instrument should be provided with an anti-dynatron electrode to cut off spurious electrons from the collector; 2) The electron work functions of the layers and the backing should be different, i.e. a sufficient difference in the contact potentials is essential; 3) The true coeff. of the secondary electron emission of the layer should

Card 2/3

BRONSHTEYN, I.M.; SHCHUCHINSKIY, Ya.M.

Energy distribution of the secondary electrons of the fourth period. Radiotekh. i elektron. 9 no.5:904-906 My '64.

(MIRA 17:7)

SHORUCHEIN, Nikolay Vasil'evich.

Tests of electric balance plows. Moskva, Gosmashmetizdat, 1932. 67 r. (Trui: Vsesoiuznogo nauchno-issledovate'skogo instituta s. -kh. mashinostroeniia) (50-47642)

5483,548

1. Plows. 2. Electricity in agriculture.

RAYEVSKIY, N.P.; VLADIMIROV, B.V.; KOMAROV, N.S., red.; SHCHUCHKIN, N.V., red.; SOLOV'YEV, D.I., red.; RABINOVICH, I.P., red.; VASILENKO, I.F., red.; MODKL', B.I., tekhn. red.

[Theory, design, and manufacture of agricultural machinery] Teoriia, konstruktsiia i proizvodstvo sel'skokhoziaistvennykh mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol.7. [Atlas of general agricultural machinery parts] Atlas obshchikh detalei sel'khoziaistvennykh mashin. 1945. 335 p. (MIRA 14:6)

(Agricultural machinery)

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- 2. USSR (600)
- 4. Agriculture
- 7. Discs and plows. Moskva, Mashgiz, 1952

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.

olion CHKIG, h. 7.

Agricultural Machinery

Hanging attachments for tractor KhT3-7. Part 1: Suspension mechanism and cultivator-ridger KcN-2-3, Sel'khozmushina, No. 1, 1952.

Monthly List of Tussian Accessions, Library of Congress, April 1952. Unclassified.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548920008-4

SHOHUCHKIN, H. V.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Kume

Shchuchkin, N. V.

Title of Work

"Plowshares and Surface Plows"

Nominated by

All-Union Scientific Research Institute of Agricultural Machine Building

SO: W-30604, 7 July 1954

HRONSHTEIN, I.M.; SHCHUCHINSKIY, Ya.M.

Energy spectrum of slow secondary electrons in the adsorption of Ha on W. Radiotekh. i elektron 5 no.10:1650-1657 0 '60. (MIRA 15:10) (Adsorption) (Secondary electron emission)

RUBANIK, Vasiliy Vasil'yevich [Rubanyk, V.V.]; SHCHUDRYA, M.A., red.; GURVICH, O.G.[Hurvych, O.H.], tekhn. red.

[The young village of Ksaverovks] Molodits' Ksaverivky. Kyiv, Kyivs'ke oblasne knyzhkovo-gazetne vyd-vo, 1961. 34 p.

1. Predsedatel' kolkhoza "Druzhba" , Kiyevskoy oblasti (for Rubanik).

(Grebenki District—Rural conditions)

GINEVICH, G.I.; SKUE, G.I.; SHCHUGAREV, V.T.

Studying the process of continuous distilling-off of highly volatile substances in the production of plasticisers from dibutylphthalate and dioctylphthalate. Plast.massy no.3:64-67 '64. (MIRA 17:3)

Some appropriate with the

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CIA-RDP86-00513R001548920008-4

SOV/137-58 10 -20381

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 10 p4 (USSR)

AUTHORS: Zhukovskiy, G. V., Shchugol, L.S.

TITLE: Ore-dressing Flowsheet at the Lebyazh ye Deposit (Tekhnologiya obogashcheniya rud Lebyazhinskogo mestorozhdeniya)

PERIODICAL: Tr. N.-i. i proyektn. in-ta "Uralmekhanobr", 1957, Nr 1, pp 71-82

ABSTRACT: A description of processing procedures and indices for dressing ore at the Lebyazh'ye-deposit plant by magnetic separation and sintering is presented. A method to be used to extract apatite concentrate from the ore is noted.

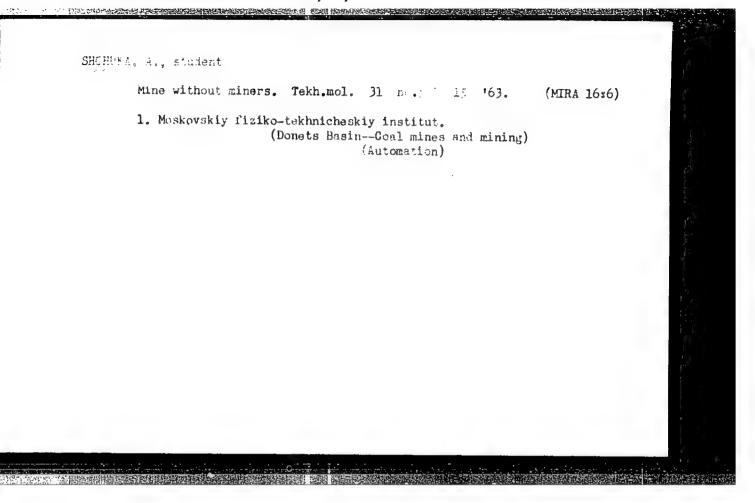
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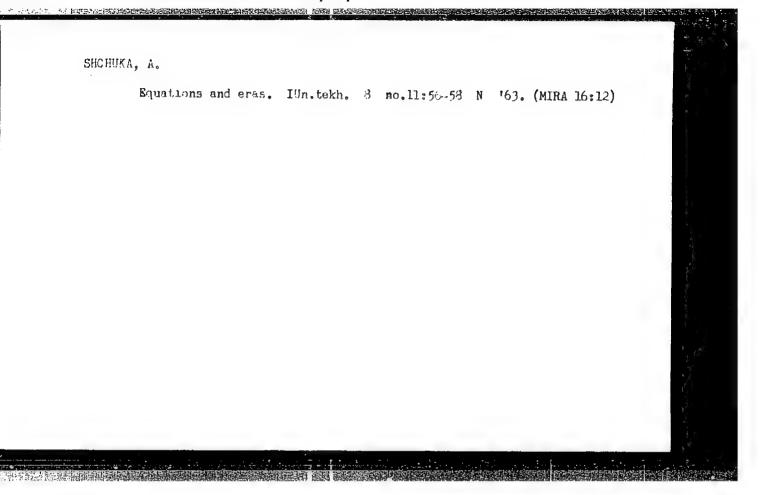
1. Ores--Processing 2. Minerals-Separation

Card 1:1

- 1. SHCHUGOREV, I.S., SHONDRA, I.V.
- 2. USSR (600)
- 4. Rodentia
- 7. Protecting fruit trees from rodent damage. Sad i og no. 11, 1952

9. Monthly List of hussian Accessions, Library of Congress, March, 1953. Unclassified.





POLYAKOV, A.I., inzh.; NASEDKIN, V.V., inzh.; SHCHUKA, A.I., inzh.

Increase in the operational reliability of LaMont boilers.

Energetik 9 no.3:6-7 Mr '61.

(Boilers)

(Boilers)

SECHERA, Mele, itale.

Useful suggestions. Avione, telen. i sviaz' 8 no.12:36 D '64.
(MIRA 18:1)

1. Anya distantsiya signalizatsii i svyazi Kuybyshavskoy dorogi.

SOV/138-59-4-15/26

AUTHOR: Shchuka, S.M.

TITLE: A Conference on Co-ordination of Research and Construct-

ion Work in the Rubber Industry (Soveshchaniye po koordinatsii planov nauchno-issledovatel'skikh i opytno-

konstruktorskikh rabot v rezinovoy promyshlennosti)

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, pp 48-49 (USSR)

ABSTRACT: The Nauchno-issledovatel'skiy institut rezinovoy prom-

yshlennosti (Research Institute for the Rubber Industry, MIIRP) convened a conference held on March 4th - 7th, 1959 on co-ordination of 1959 programme of research and construction work of the NIIRP, NIIR, the "Rezinoproyekt" Institute, Tsentral naya laboratory, (Central Laboratory,

TsZL) and the construction and technological departments (KTC) of the plants producing rubber articles. The

conference was organised by Gosudarstvennyy Komitet Soveta Ministrov SSSR po khimii (State Committee of the Council of

Ministers of the USSR for Chemistry) in conjunction with meveral councils of national economy etc. More than 200

Card 1/3

SOV/138-5-4-15/26

A Conference on Co-ordination of Research and Construction Work in the Rubber Industry

representatives attended the meeting. The lectures dealt with experimental work carried out by TsZL and KTO during 1958 and plans for 1959. The Deputy Director of the NIIRP, S.V. Burov, reviewed the work on new plants and technological processes in the rubber goods industry, on conveyor belts and synthetic fibres. He also discussed the processes of ageing and stabilisation of rubbers by the application of heat, light and irradiation, radiation vulcanisation etc. The Deputy Director of NIIR, V.I. Novikov, discussed similar topics, as well as the organisation of work in the rubber footwear industry and in medicine, and new uses of synthetic rubber. The Chief medicine, and new uses of synthetic rubber. Engineer of the Moscow Factory "Kauchuk", V.K. Smirnov, the Deputy Chief Engineer of the Leningrad Factory RTI, S.K. Turkin, the Chief Engineer of the Sverdlovsk Factory RTI, N.I. Kosynets, and others discussed complex mechanisation and automation in the industry producing rubber articles, mechanisation of transport, automation of supply, and weighing of liquid and granular ingredients, etc.

Card 2/3

SOV/138-59-4-15/26

A Conference on Co-ordination of Research and Construction Work in the Rubber Industry

Difficulties encountered by the industry were discussed, e.g. the distribution of new types of raw materials to the various factories. The conference was divided into two sections: a section for construction works and a chemical technology section, which discussed their research and construction plans for 1959.

Card 3/3

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548920008-4

S, 138/60/000/007/010/010 A051/A029

AUTHOR:

Shchuka, S.M.

TITLE:

A Meeting Held on the Coordination of Scientific-Research Work and

Experimental-Designing in the Rubber Industry

PERIODICAL:

Kauchuk i Rezina, 1960, No. 7, pp. 51 - 52

TEXT: A scientific-technical meeting was held at the Scientific-Research Institute of the Rubber Industry form March 22 - 25, 1960, on the problems of co-ordinating the plans of the scientific-research work and experimental-designing of the NIIRP, NIIR, the "Rezinoproyekt", the Central Plant Laboratories, designing-technological departments and departments of automation and mechanization of commercial rubber products and rubber products for general consumption for the year 1960. The meeting was organized by the State Committee of the USSR Fruncil of Ministers on Chemistry according to the wishes of a number of National Economy Councils, plants and by the decision of the meeting held the previous year on similar problems. The papers submitted and speeches held summarized the work and plans for 1960. Ye.M. Rabkin, head engineer of the Administration of Three and Rubber products of the State Committee on Chemistry, held the introductory speech

Card 1/4

S/138/60/000/007/010/010 A051/A029

A Meeting Held on the Coordination of Scientific-Research Work and Experimental-Designing in the Rubber Industry

on the major tendencies in the development of the rubber industry; S.V. Eurcy, deputy director of the scientific division of the NITRP, read a paper on the results of the scientific research work at the NIIRP and the general paths taken by the institute in this connection. V.I. Novikov, deputy director heading the solentific section of NIIR, discussed the possibilities of increasing the mechanization level of rubber footwear production, latex articles and articles for medical purposes and the study of new synthetic latexes. B.M. Smirina, head engineer at the "Rezinoproyekt" Institute, reported on the new processes of commercial rubber articles production to be introduced at the new rubber plants. Reference was made to the rubber article plant being built as part of the Volga Chemical Combine. A. S. Novikov of the NIIRP presented a paper on the development of new synthetic rubbers both in the Soviet Union and abroad. N.N. Lezhnev of the NIIShP reported on the demands placed on carbon blacks in the rubber industry in the light of modern views of the physico-chemical nature of filling. V.K. Smirnov of the Moscow "Kauchuk" Plant, P.I. Tikhomirov (Leningrad Rubber Article Plant), V.I. Yudin (Sverdlovsk RTI Plant), T.N. Titarenko (Kursk Rubber Plant), M.S. Kegan (Yare

Card 2/4

S/138/60/000/007/010/010 A051/A029

A Meeting Held on the Coordination of Scientific-Research Work and Experimental Designing in the Rubber Industry

slavl' Rubber Article Plant) and others, reported on the development of complex mechanization and automation of the production of molded and unmolded rubber products, the mechanization of transportation in the various technological operations within the shops and between shops and the loading and unloading operations, automating the supply and weighing of liquid and loose ingredients to the mixer, perfecting the technology of production, introducing new types of raw material and new types of articles. The MARS-200, an automatic machine for recording and controlling the temperature on the electrical press, has been installed at the "Krasnyy Bogatyr'" and "Kauchuk" Plants. At the latter a press with removable plates and cassette press-forms is being installed. A new continuous vulcanizer of the open type for vulcanizing molded sponge rubber articles in an air medium and ar automatic program control of the vulcanization of rubber bales in boilers were introduced at the Leningrad Rubber Article Plant. At the Kazan' Rubber Article Plant a fissureless method for the production of pressure sleeves was introduced. Certain types of rubber footwear made on a conveyor belt are being manufactured at the "Krasnyy Treugol'nik" and "Krashyy Bogatyr'" Plants. The mass-production of

Card 3/4

S/138/60/000/007/010/010 A051/A029

A Meeting Held on the Coordination of Scientific-Research Work and Experimental Designing in the Rubber Industry

variation belts using caprone fabric has been introduced for application at the CK-3 (SK-3) combine. New rubbers such as CKC-30 (SKS-30), APM-15 (ARM-15), soft nitrile rubbers of the CKH-40 (SKN-40) type and CKH-26 (SKN-26) have been manufactured by a number of plants. Some of the rubber article plants have introduced the production of thermal-resistant material OKC (FKS) and molded articles from flucture rubber-based material. The "Krasnyy Treugol'nik" Plant has developed the construction of a semi-automatic machine of the turning type for the vulcanization of shoes. The "Krasnyv Bogatyr'" Plant has introduced the production of galoshes with inserted profile parts. It was decided to organize special designing bureaus at the various rubber plants, which would deal with furthering the development of molded products, sleeves, transportation belts, latex technology and to erect special plants for the production of non-standard equipment and conveyor belts for the rubber industry. Further decisions were made on the installation of equipment for footwear molds, introduction of capacities for special-purpose synthetic rubber, for chemical fibres for the industry of commercial rubber products and rubber footwear.

Card 4/4

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548920008-4

L 4402-66 EWT(1)/FCC RB/GW

ACC NR: AP5025486

SOURCE CODE: UR/0203/65/005/005/0941/0942

AUTHOR: Shchuka, T. I.

ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i Antarkti-

cheskiy nauchno-issledovatel'skiy institut)

TITLE: Riometer observations of shifting regions of anomalous absorption

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 5, 1965, 941-942

TOPIC TAGS: aurora, ionospheric absorption, geomagnetic disturbance, geomagnetic

field

ABSTRACT: Two riometers were operated at the <u>Dickson Island Arctic Station</u> during July and August, 1964, to record ionospheric absorption of extraterrestrial radio emission as a function of aurora borealis activity. Both riometers were tuned to 32 Mc and calibrated at a common "quiet day" reference level. One antenna was aimed north and the other was aimed about 50° west of north, so that a strip of the ionosphere approximately 490 km long was under observation. Comparison of dips in simultaneously received signals during auroral activity showed where local absorption minima and maxima were occurring within the observed region. Results of 106 recordings showed that locations of absorption maxima and minima were functions of auroral

Card 1/2

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EWT(1)/FCC/EWA(h) L 9782-66

AF5025484 ACC NR:

SOURCE CODE: UR/0203/65/005/005/0937/0939

Shchuka, T. I.

ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i Antarkticheskiy nauchno-issledovatel'skiy institut)

TITLE: Sporadic ionization of the aurora polaris type in region E

SOURCE: Geomagentizm i aeronomiya, v. 5, no. 5, 1965, 937-939

TOFIC TAGS: ionosphere, e layer, ionization, aurora

ABSTRACT: A single manual on the vertical probing of the ionosphere, (J. W. Wright, R. W. Knecht, C. Davis, Rukovodstvo po vertikal nomu zondirovanyu ionosfery, IL, 1957) was accepted by almost the entire network of ionospheric stations. Still, the interpretation of ionograms during classification of sporadic reflections in the region E seems to be far from uniform. For instance, stations Luleo and

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Salechard, having similar geomagnetic latitude, interpreted the percentage of the E_{sa} (sporadic ionization of the aurora polaris type) appearance, during Jan., Feb., Nov., and Dec., 1958, as 40 and 1.4%, respectively. This large difference could not be causedonly by differences in the ionospheric parameters above these stations. They were probably caused by subjective personal opinions of the specialists treating the material. An attempt was made to classify various types of Esa and outline their characteristics in order to facilitate and unify their identification. The comparison of ionograms and ascafilms showed that 3 types of Esa occurred most often during reflection from sporadic ionization related with aurora polaris: (1) the classical type of Esa, fully corresponding to the definition given in the J. W. Wright et al. manual; (2) Esa during elevated absorption, appearing at high values of minimal frequency of reflections (it is usually characterized by a decrease in diffusion and scattering and almost complete disappearance of stratification in the upper part of the path); and (3) type Esa, very similar in appearance to Est and characterized by a gradual introduced by a gradual introduced in the height of the reflection path with increased frequency (it differs from Esa in that reflections are caused by entirely different phenomena in the lower ionosphere). The following characteristics of these reflections should be

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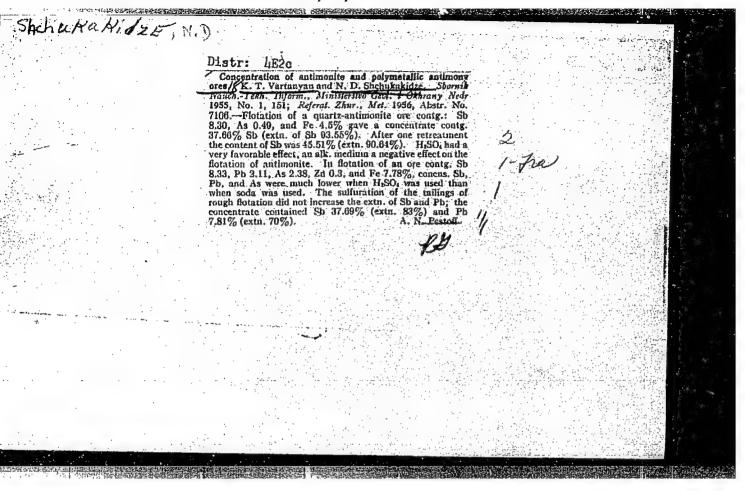
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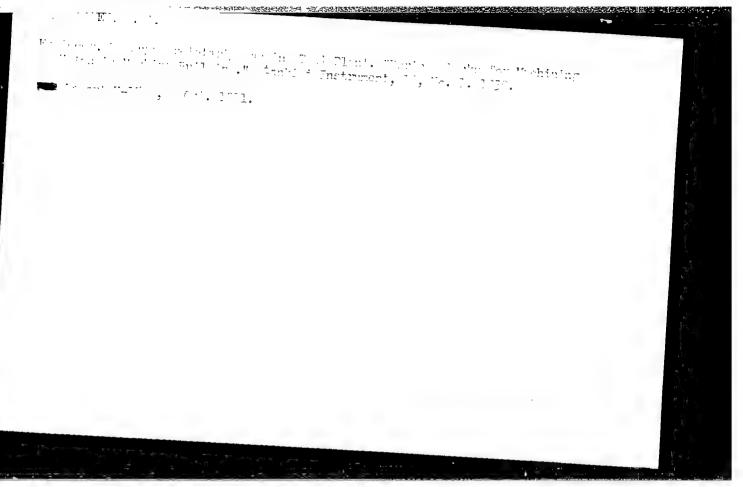
considered in order to facilitate their identification from ionograms: (1) dependence of the outside appearance on amplification (e.g. during increase in absorption of the ionosphere, the maximum amplification results in the correct identification) and (2) rapid changes in an outside appearance (occasionally a different type appears for a short time, to change rapidly into a true type). Origart. has: 3 figures and 1 table.

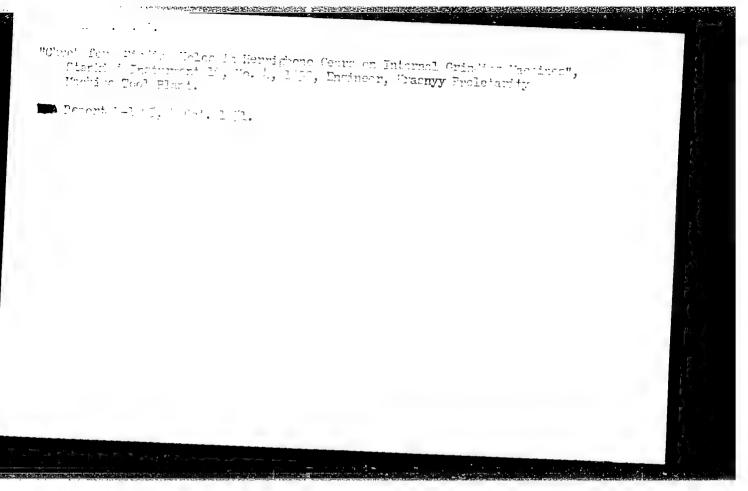
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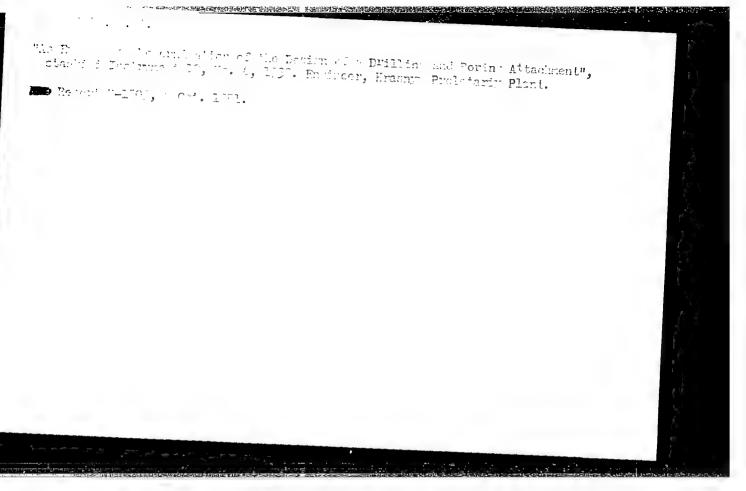
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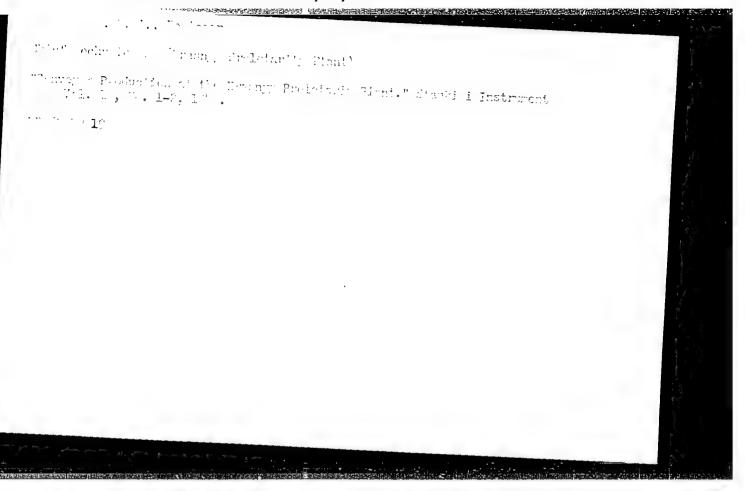
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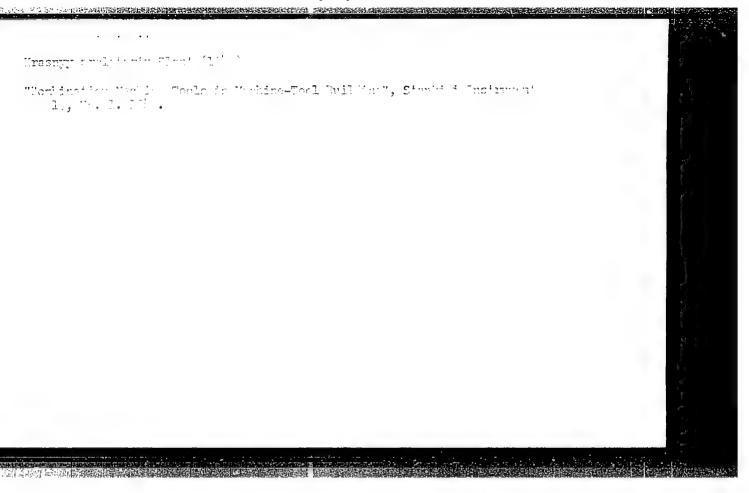


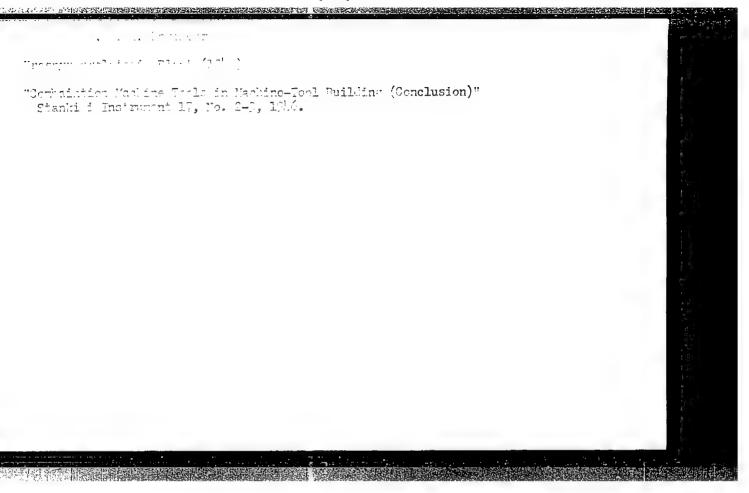






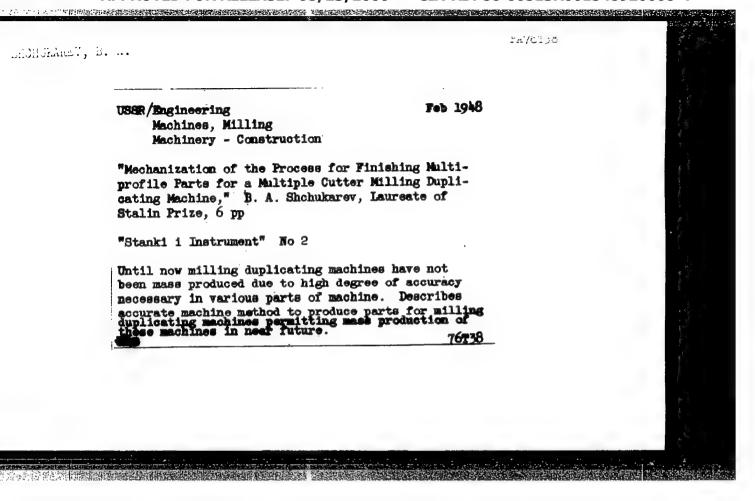






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.otochngi metod v krujnoseriinom įrolzvodstve; iz ojyta Loskovskogo ordena Lenina stankostroltelinogo zavoda "mrasnyi įroletarii." Loskva, kashgiz, 1749. 101 i. illus.

Assembl, -line methods in a large-scale serial production; from the experience of the Aoscow Lenin's Order machine-tool construction plant "Krasnji proletarii"

DLC: TéO. A75:5

Ed: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

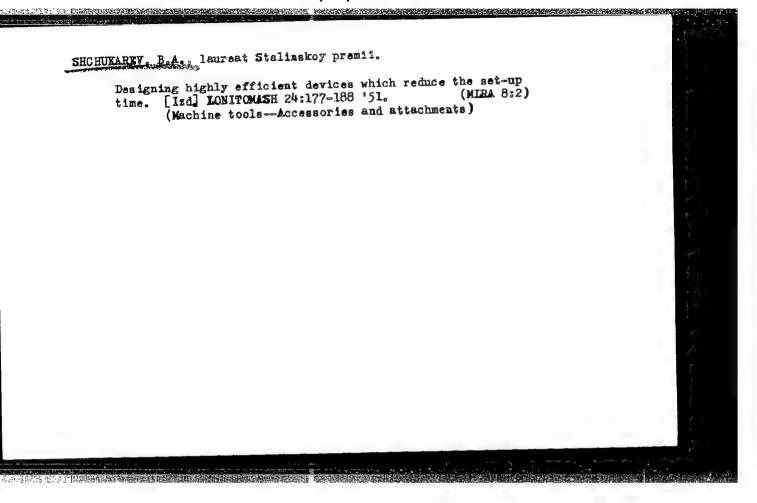
B. A. THOHOMOREV and Boloviu, KH. L.

O konkurse no luchshie prisposobleniia. (Vestn. Mash., 1949, no. 6, p. 49-54) Competition organized by "VNITO"ASH"

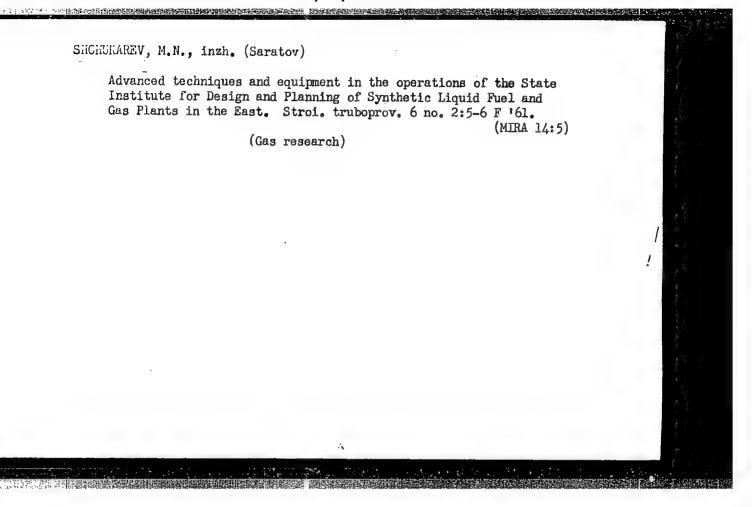
Competition for better equipment.

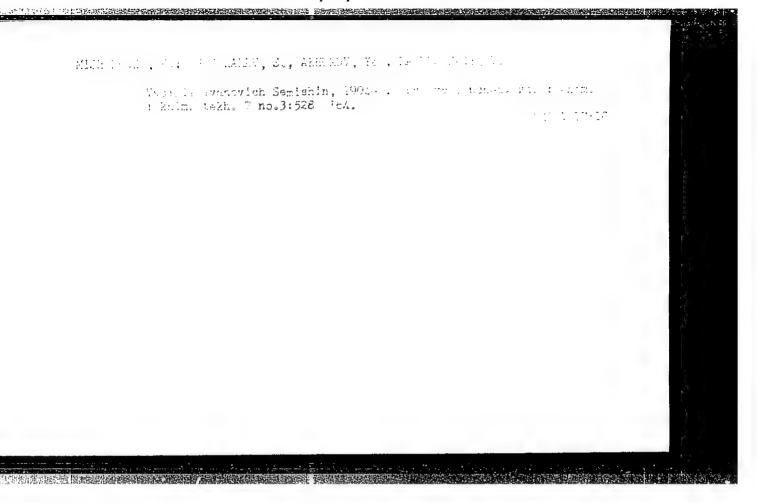
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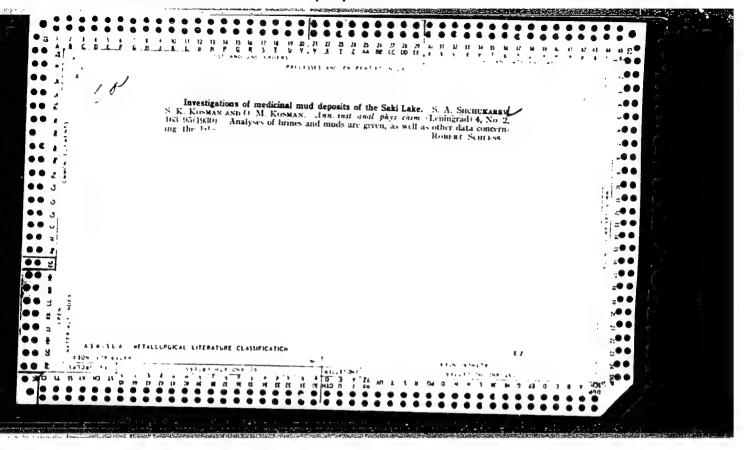
50: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

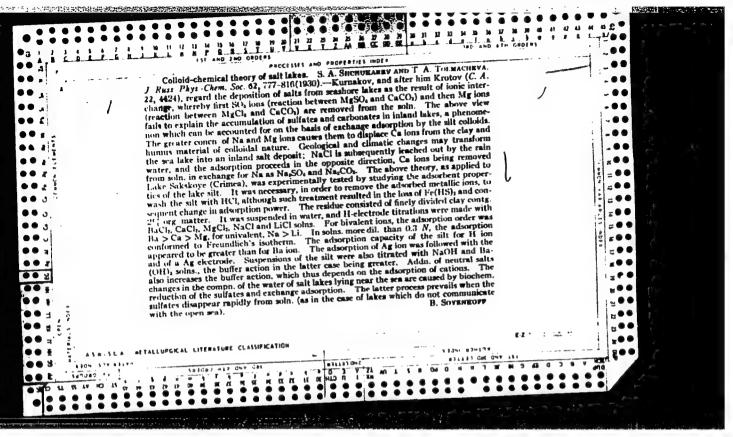


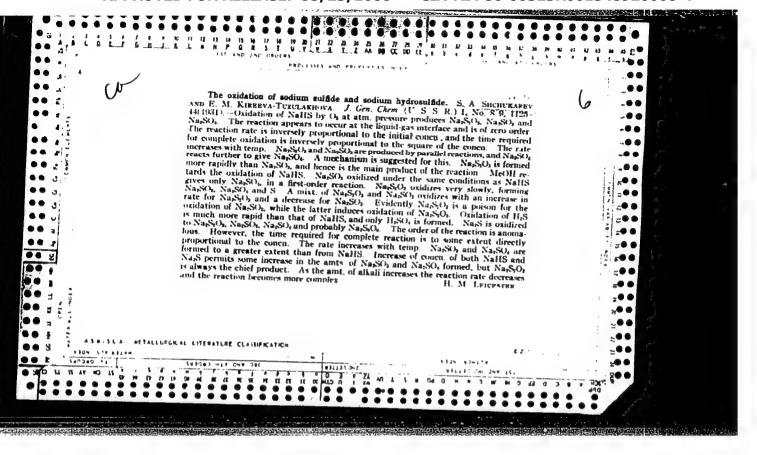
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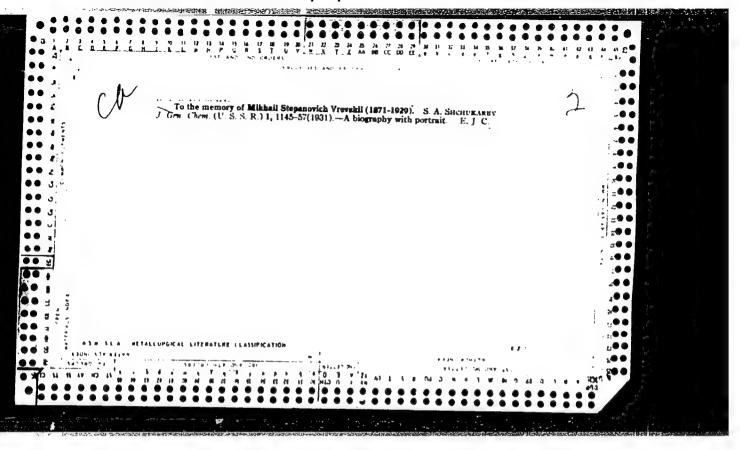


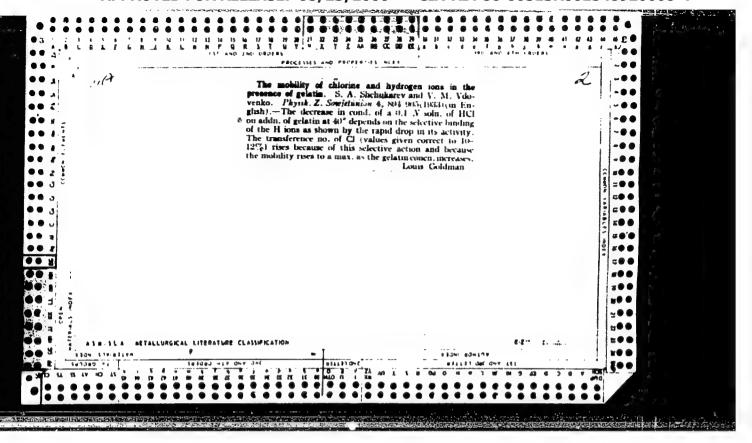


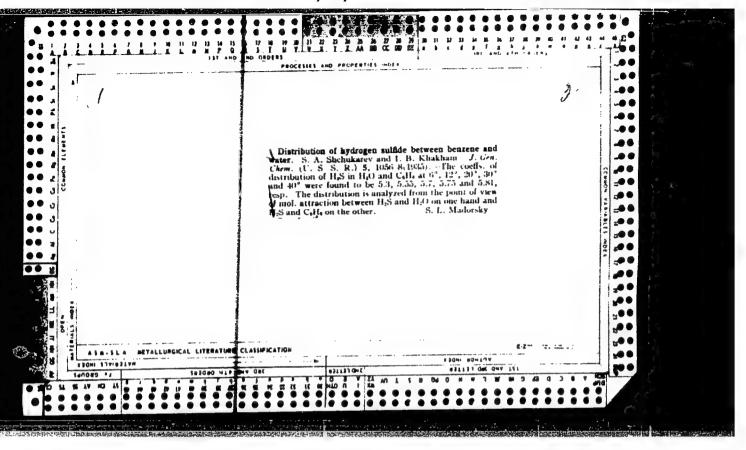


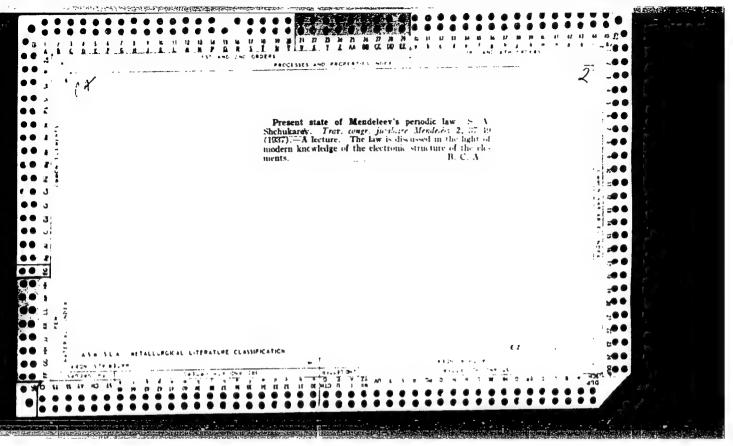


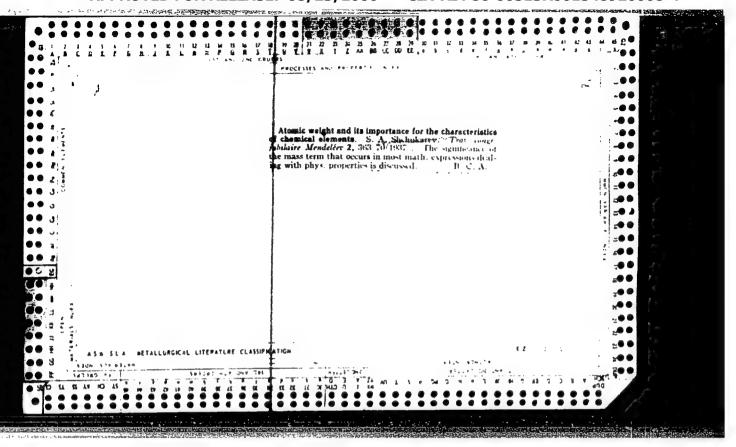


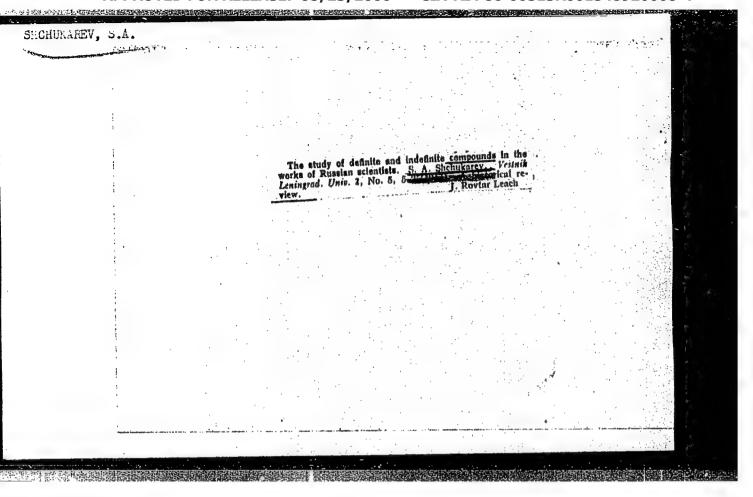


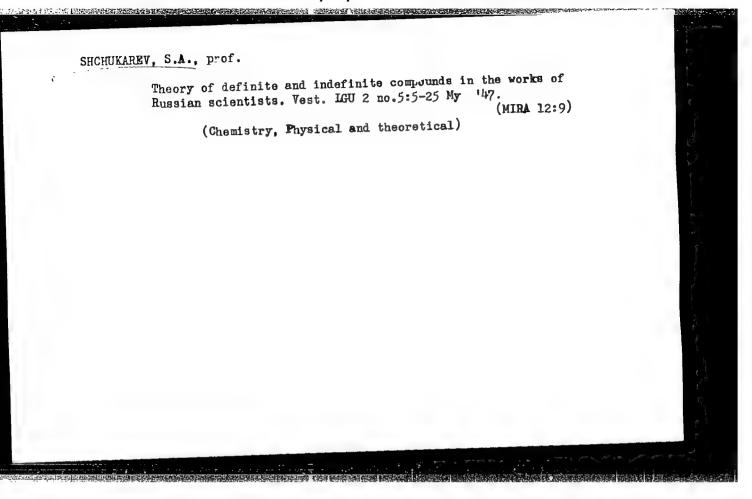


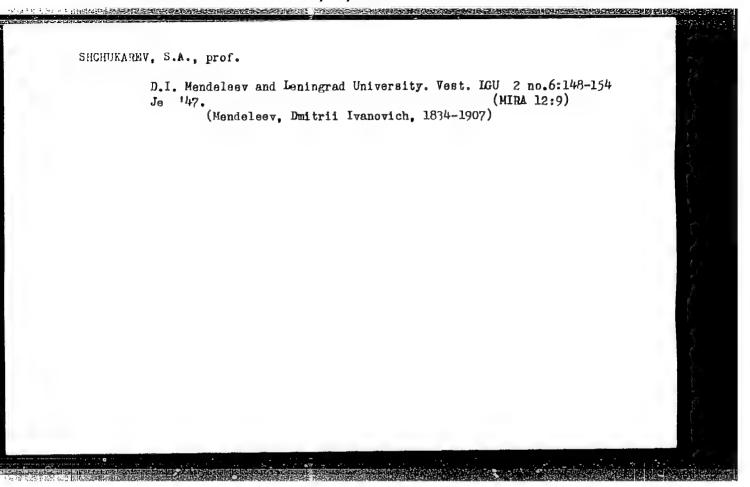


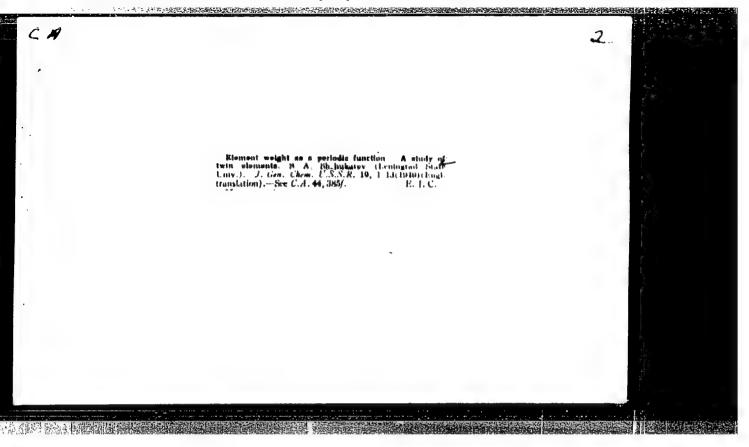






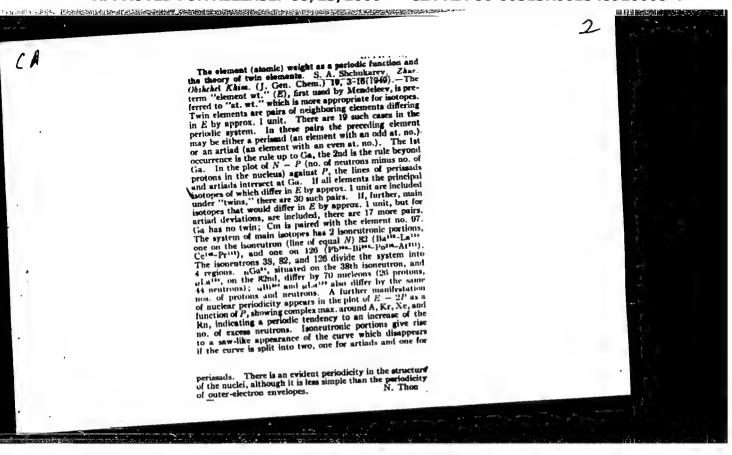


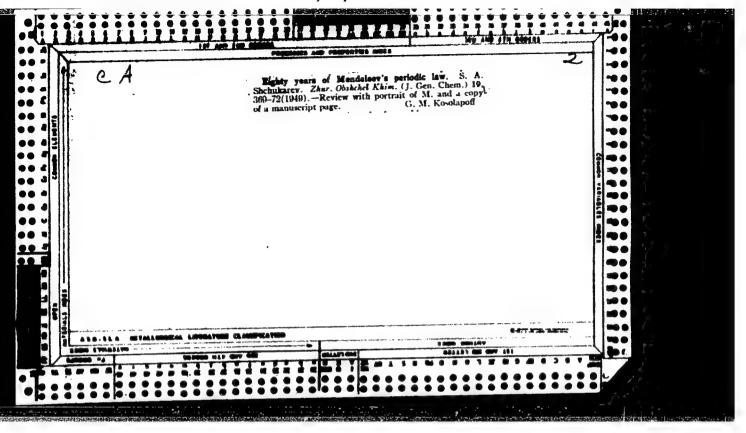


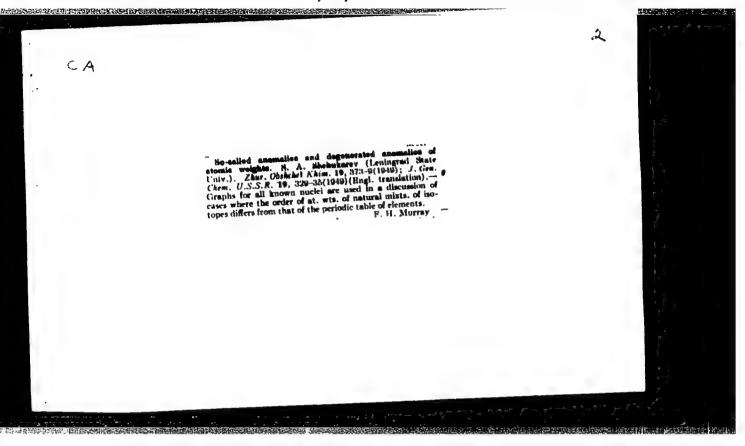


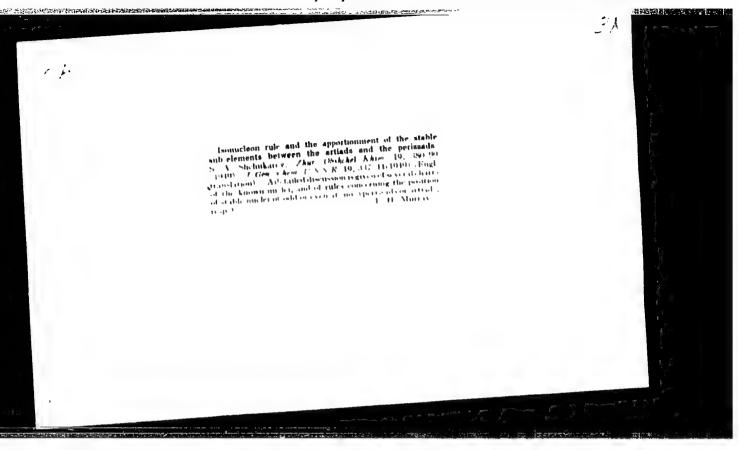
"APPROVED FOR RELEASE: 08/23/2000

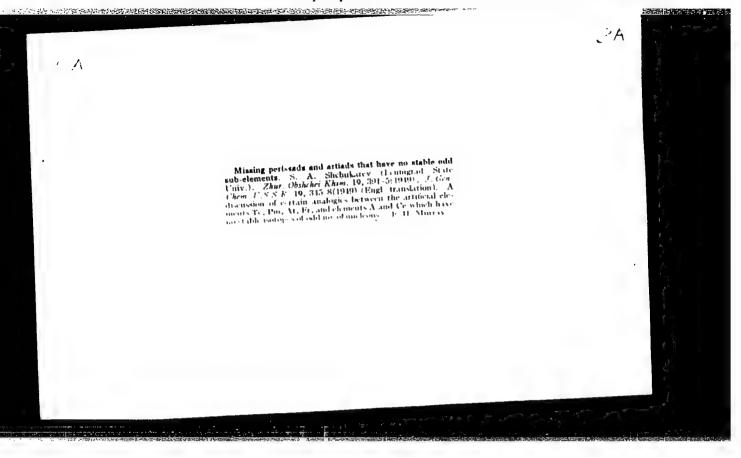
CIA-RDP86-00513R001548920008-4

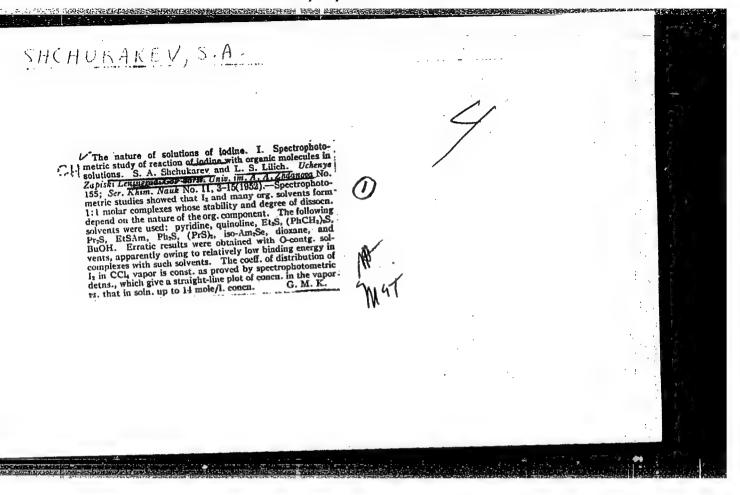


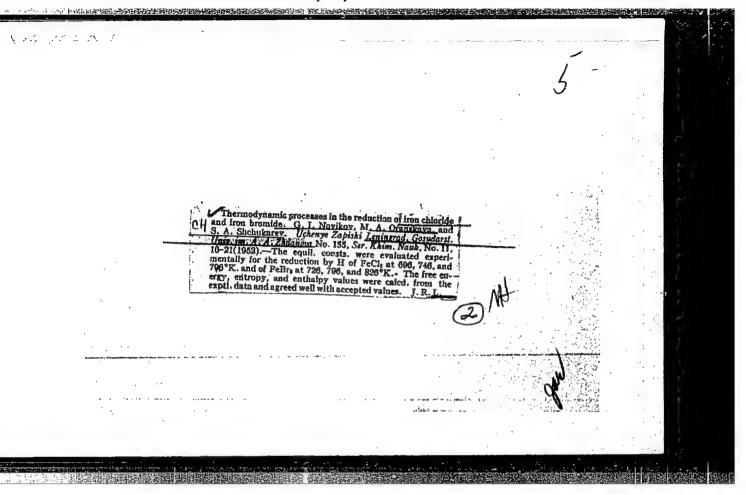


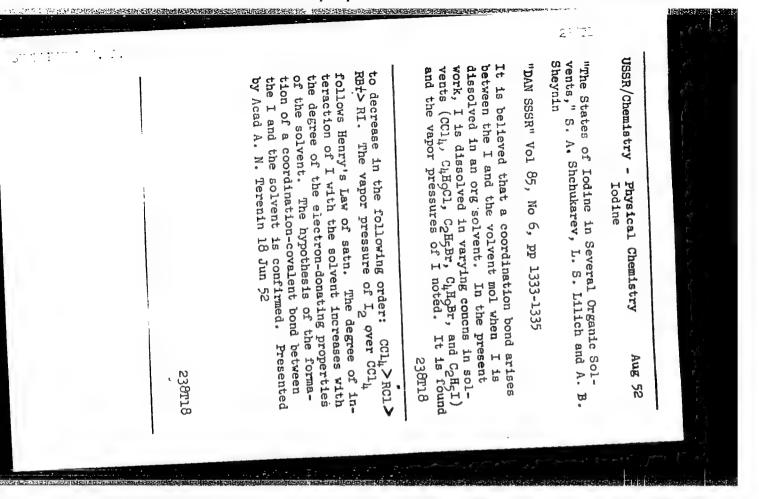






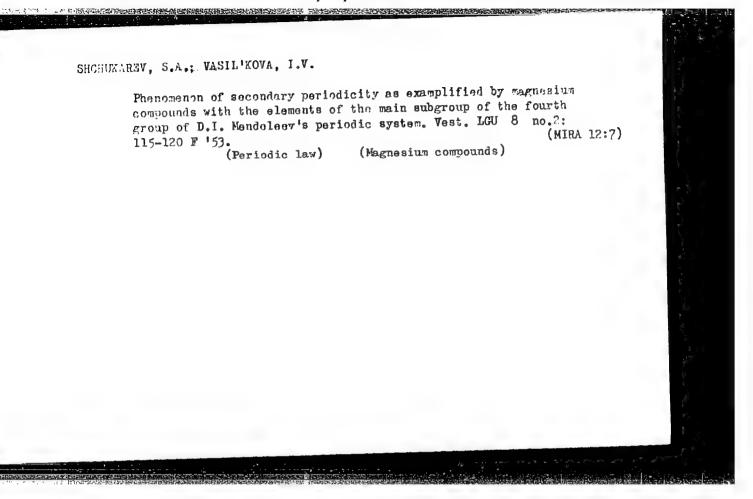






- 37 min 7, 3, A.; WX.TH, A. T. 1.
- 2. 0331 (600)
- 4. Sparer, Marwiolet
- 7. The obligation colorimetric analysis in the ultraviolet region of the spectrum, Zhur. unal. khim. 8, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, 127 1953. Unclassified.

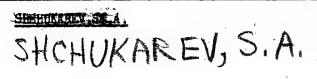


SHCHUKAREV, S.A.; ARIYA, S.M.; LAKHTIN, G.I.

Thermochemistry of magnesium compounds with the elements of the main subgroup of the fifth group. Vest. IGU 8 no.?:121-126

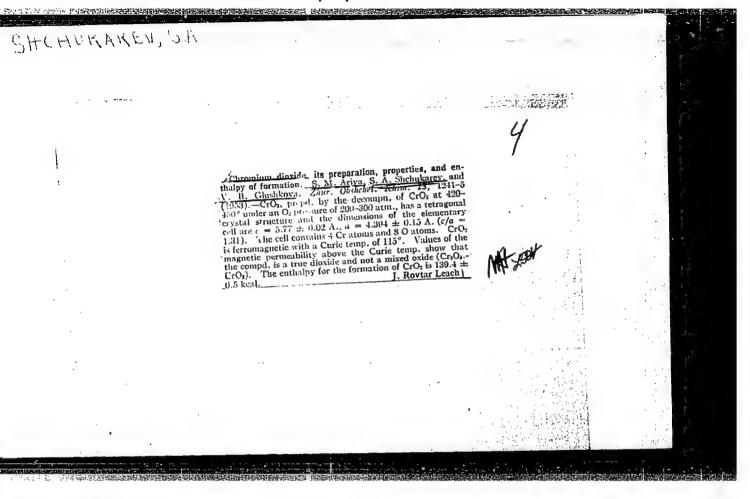
F 153.

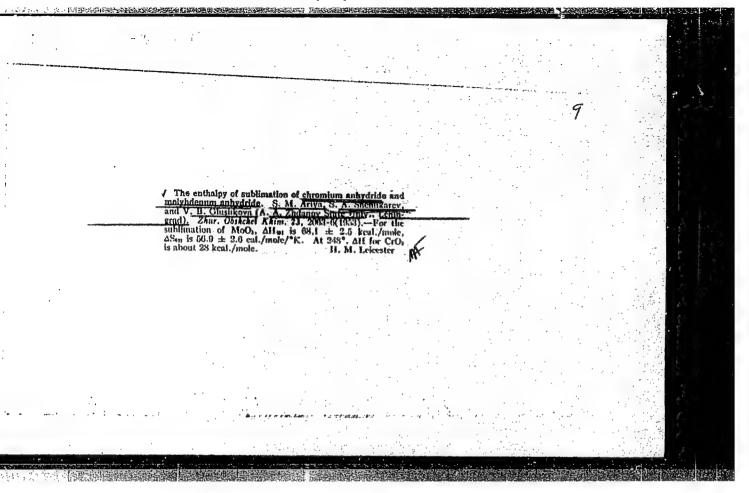
(Magnesium compounds) (Thermochemistry)

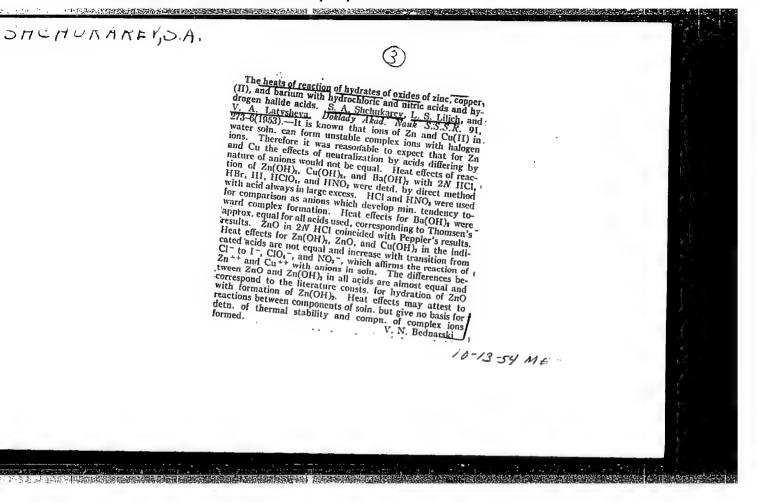


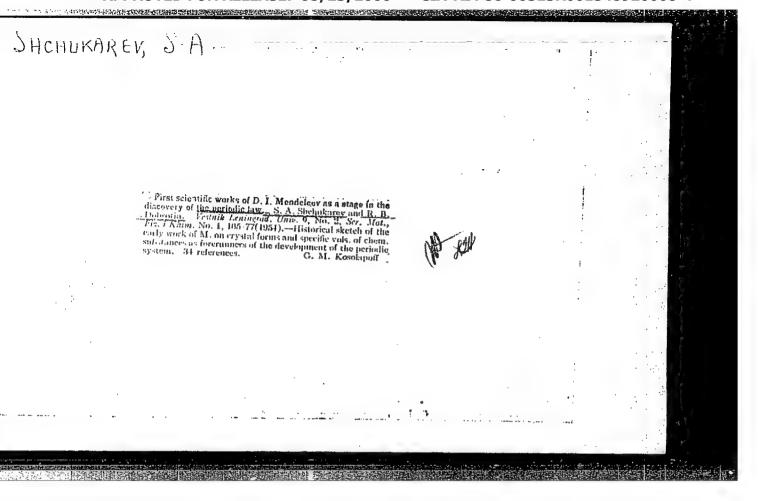
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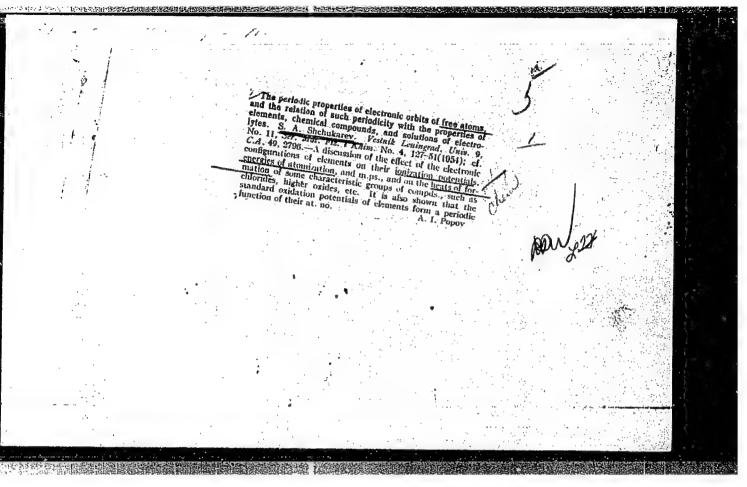
/Gravimetric method for measuring the pressure of a saturated vapor. G. I. Novikov and S. A. Shelmkarev, Uchenye Zapiski, Lenimerad, Graudrest and S. A. Shelmkarev, Uchenye Zapiski, Lenimerad, Graudrest and L. Zapor A. Static gravimetric method is described for the measurement of the pressure of a satd, vapor which is useful in the case of high-boding and chemically active substances. The method was applied to the vapors of WCleover the temp, range 156-485? The dies appears to be a good continuation of those obtained by Vernot (C.A. 31, 8285) at low temps. The heat of vaporization was calculated found to be equal to 13.7 kcal./g, mole.











SHCHUKAREV, S. A.

USSR/Chemistry - Spectral analysis

: Pub. 145 - 2/14 Card 1/1

Shchukarev, S. A.; Andreyev, S. N.; and Sapozhnikova, O. V.

: Determination of small ketone amounts by colorimetering in the Authors Title

ultraviolet zone of the spectrum

Zhur. anal. khim. 9/4, 193-195, Jul-Aug 1954

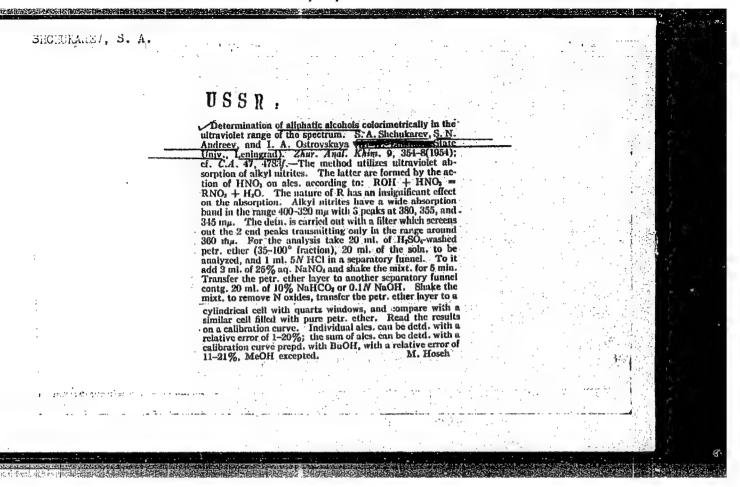
The applicability of the colorimetering method for quantitative Periodical Abstract

analysis of various aliphatic ketones was investigated. The objects used in this investigation were the following aqueous ketone solutions: acetone, methylethylketone, pentanone-2, hexanone-2, heptanone-2 and octanone-2. The relative accuracy of the analysis attained by this method was 0 - 15%. It was established that the colorimetering of acetone solutions in the presence of formaldehyde is possible also at

a acetone-formaldehyde concentration ration of 1: 100. Nine references: 2-English; 2-German and 5-USSR (1901-1953). Tables; graphs.

The A. A. Zhdanov State University, Leningrad Institution:

December 9, 1953 Submitted



SHCHUKAREV. S. A.

USSR/Chemistry

Card 1/1

Authors

Shchukarev, S. A.

Title

: The periodical law of D. I. Mendeleyev as the basic principle of

modern chemistry.

Periodical

Zhur. Obehchei Khim. 24, Ed. # 581 - 592, April 1954

Abstract

The D. I. Mendeleyev periodical law, according to the author, should be considered as the basic principle of chemistry, controlling the intermittent, qualitative changes accompanying the conversion of one element into another and confirming the periodicity of these changes depending upon the behavior of the nucleus and external atomic electrons, qualitative changes in the consecutive series of elements oriented in the order of increase of nuclear charges ranging from hydrogen to centurium. Nine references; all USSR; 6 since 1950, 3 of earlier date.

Tables, graphs.

Institution

:

Submitted

February 1, 1954

CIA-RDP86-00513R001548920008-4 "APPROVED FOR RELEASE: 08/23/2000

SHCHUKAREV, 3. A.

USSR/ Chemistry Synthesis methods

Card

Pub. 151 - 1/33 : 1/1

Authors

: Shchukarev, S. A., Morozova, M. P., and Prokofyeva, E. A.

Title

: Higher barium phosphides

Periodical

: Zhur. ob. khim. 24/8, 1277 - 1278, August 1954

Abstract

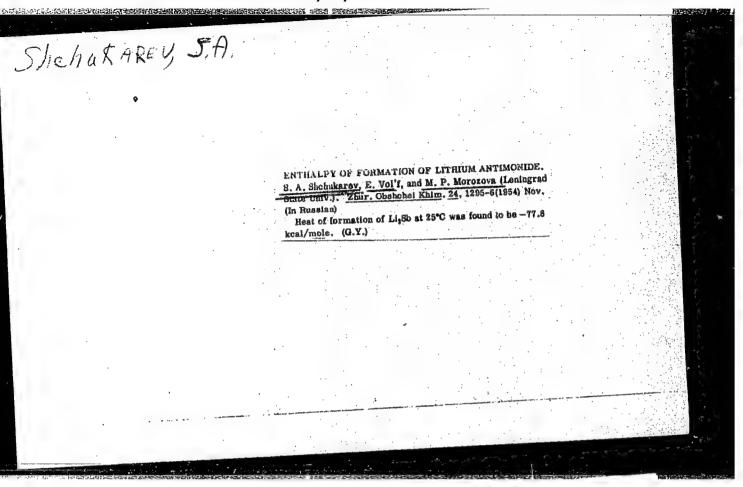
: The derivation of higher barium phosphides (BaP2 and BaP3) in a state of thermal equilibrium at low P-vapor pressures, is described. The thermodynamic stability of BaP2, a compound analogous to barium nitride, was found to be much higher than in the case of N-compound. The fluctuations in the formation enthalpy, during transition from one element into another, are explained. Three USSR references (1945 and 1953).

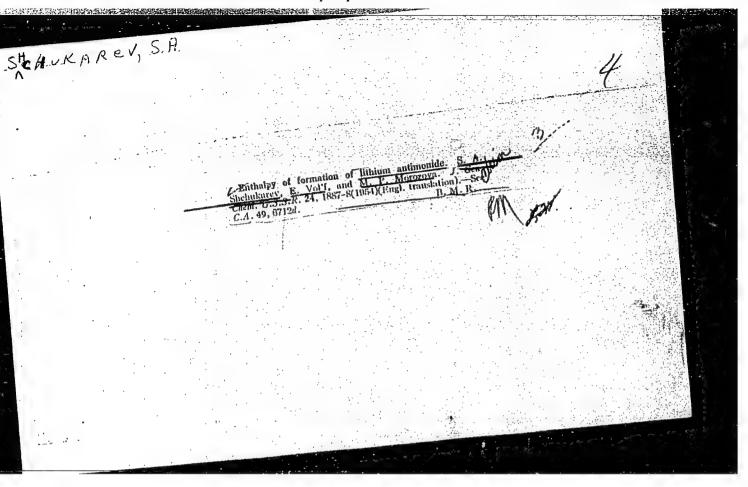
Table.

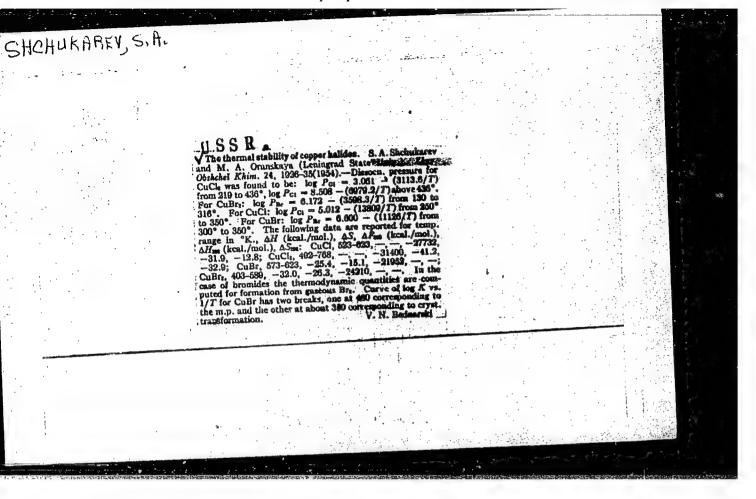
Institution : State University, Leningrad

Submitted

: March 6, 1954





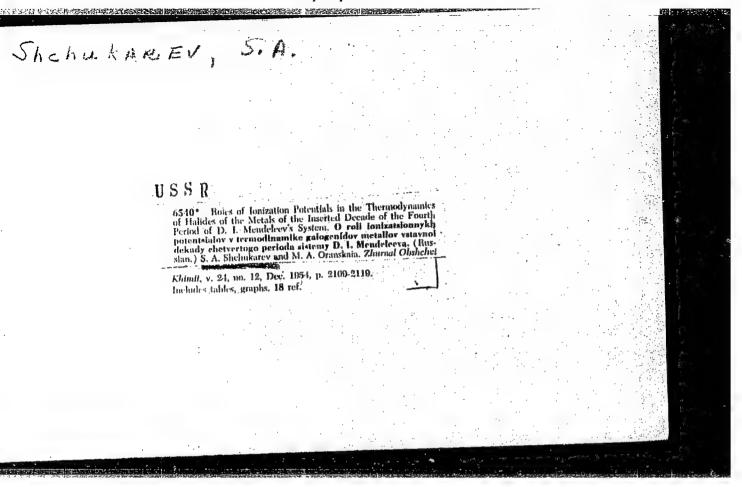


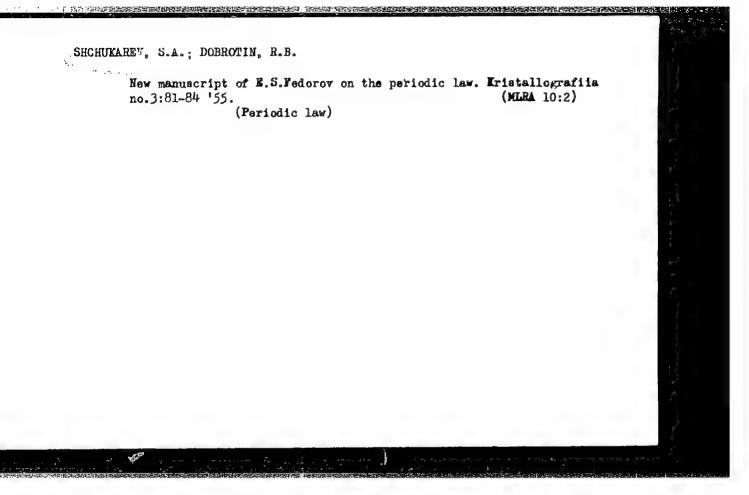
SHCHUKAREV, S.A.; TOIMACHEVA, T.A.; ORANSKAYA, M.A.

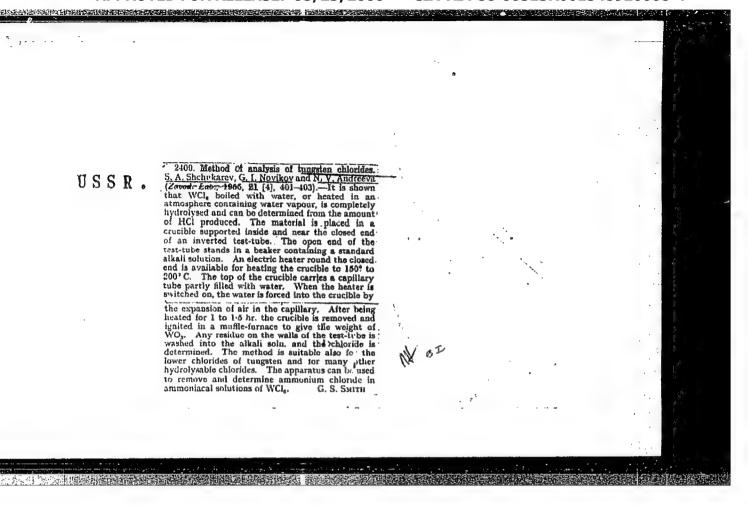
Thermal stability of cobalt and nickel halides. Zhur.ob.khim.24
no.12:2093-2109 D '54.

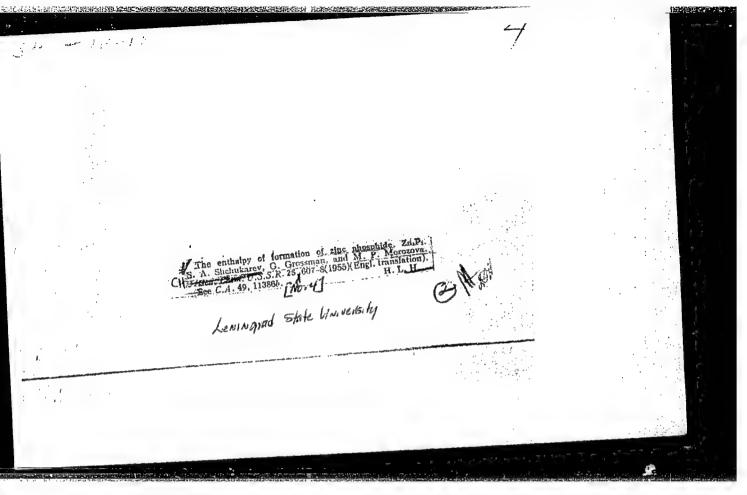
1. Leningradskiy gosudarstvennyy universitet.

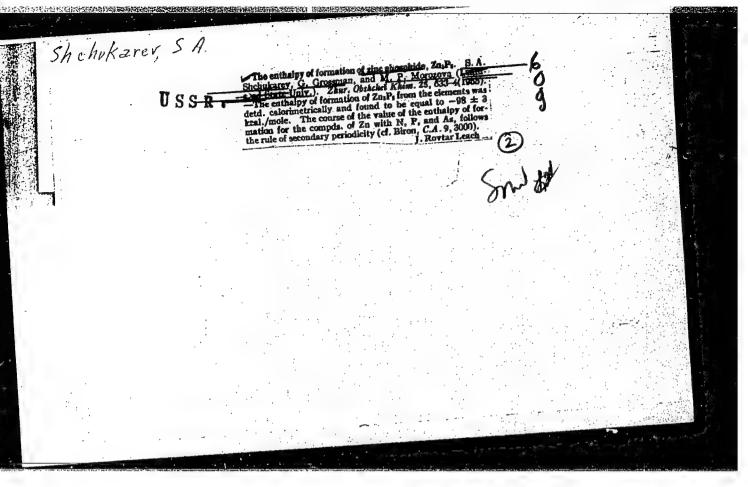
(Halides)





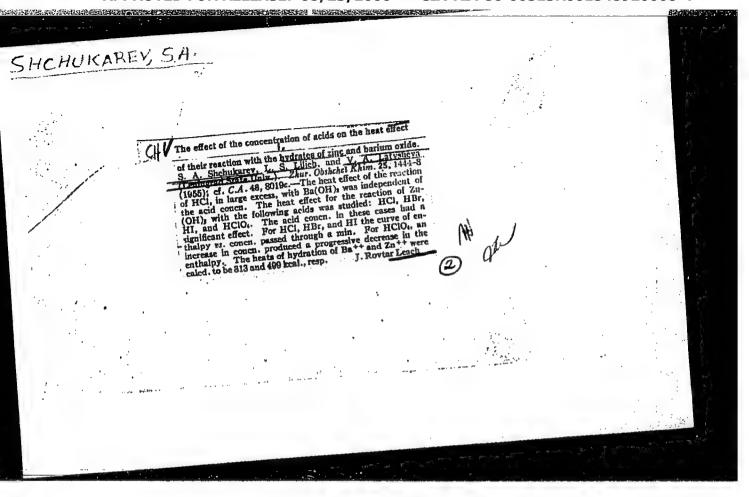


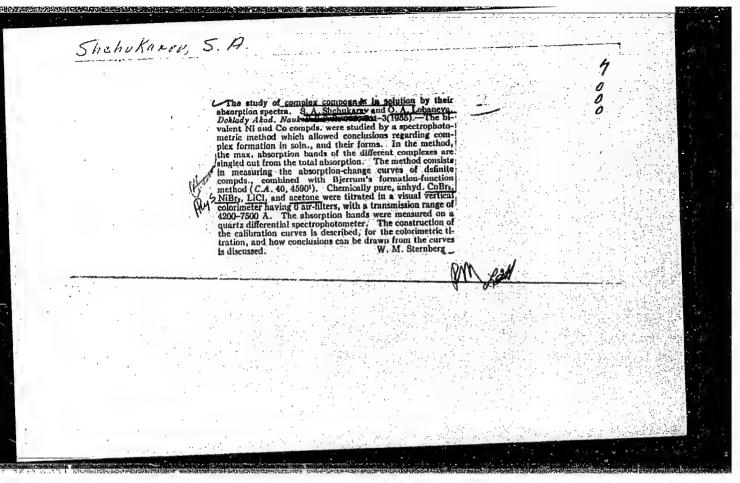




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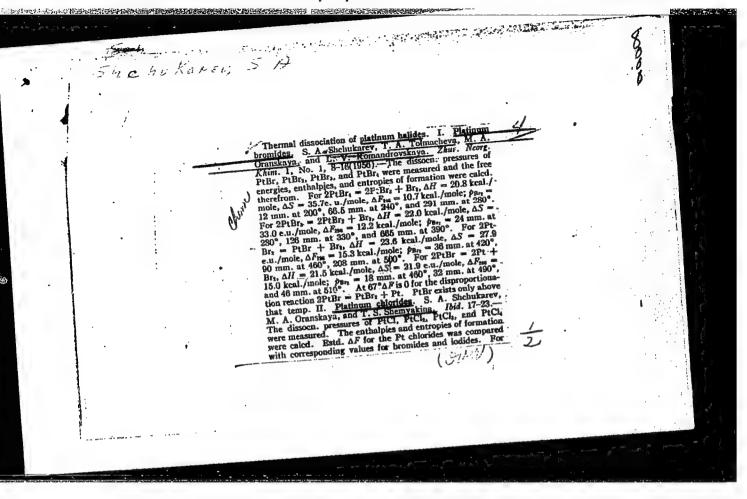
CIA-RDP86-00513R001548920008-4

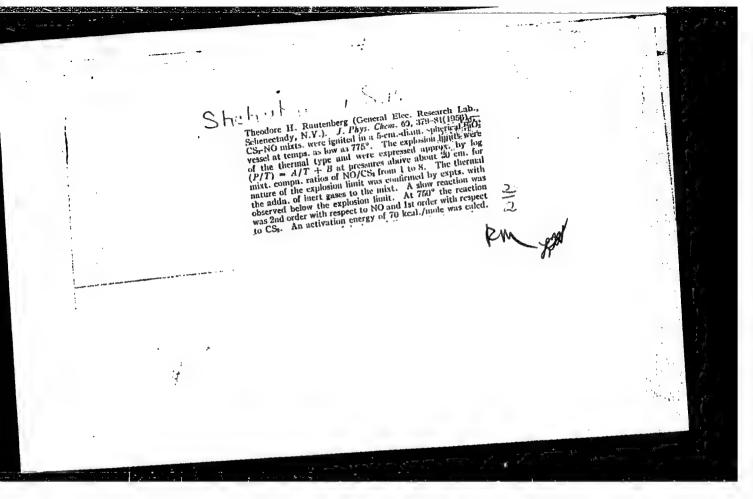


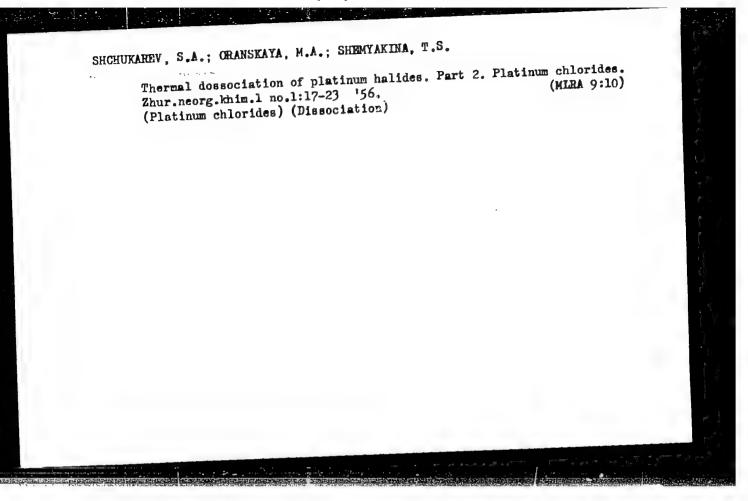


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CIA-RDP86-00513R001548920008-4







SHCHUKAREV

USSR/Physical Chemistry. Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

Ref Zhur-Khimiya, No 5, 1957, 14645 Abs Jour:

Author : S. A. Shchukarev, M. A. Oranskaya, T. A. Tolmacheva,

A. K. Yakhkind

Inst

Pressure of Saturated Vapor of Vanadium Tetrachloride Title

Zh. neorgan. khimii, 1956, 1, No 1, 30-35 Orig Pub:

The purpose of the work is to check the previously obtained data (Simons J. H., Powell M. G., J. Amer. Chem. Soc., 1945, 67. 75) and to enlarge the temperature range somewhat. VCl₄ was prepared by chlorinating aluminothermic V. A scheme of the chlorination installation is Abstract: attached, the method of work is described. The pressure of the saturated vapor PVCli was determined by the flow method permitting to compute the partial pressures of VCli

and Cl2 separately. Dried and purified N2 was used as a

gas inert in reference to VCl_4 . P_{VCl_4} was determined in

Card 1/2

USSR/Physical Chemistry. Thermodynamics, Phase Transitions. Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14645

the range from 0° to 90° . The following was found based on the experimental data: $logPVC1_4(mm) = -(2174 / T) +$ 5.19; L = 9.9 ± 0.1 kcal per mole; AS (vap.) = 23.8 entr. Abstract: units. The checking of the data by the method of measuring the vapor pressure by boiling points within the range from 25 to 85° resulted in following values: log PvCl4 = = -(2185 / T) + 5.21; L = 10.0 ± 0/1 kcal per mole, Δ S (vap.) = 23.8 + 0.4 entr. units. It follows from the concordance of the results of both these methods that VC14 in vapor form is a monomer.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548920008-4

